

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. 00-052

33-AA-0015

**WASTE DISCHARGE REQUIREMENTS
FOR
COUNTY OF RIVERSIDE, OWNER/OPERATOR
OASIS SANITARY LANDFILL
CLASS III LANDFILL
South of Oasis - Riverside County**

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Riverside County Waste Management Department (hereinafter referred to as the discharger) 1995 Market Street, Riverside, CA 92501-1719 owner and operator of Class III Sanitary Landfill (hereinafter referred to as the Landfill), submitted a Joint Technical Document for the Landfill on September 25, 1998.
2. The Joint Technical Document contained information for updating the Waste Discharge Requirements.
3. Definitions of terms used in this Board Order:
 - a. Waste Management Facility (WMF) - The entire parcel of property at which waste discharge operations are conducted.
 - b. Waste Management Unit (WMU) - An area of land, or a portion of the waste management facility, at which waste is discharged. The term includes containment features and ancillary features for precipitation and drainage control and monitoring.
 - c. Landfill - A waste management unit at which waste is discharged in or on land for disposal. It does not include surface impoundments, waste piles, or land treatment of soil amendments.
4. The Landfill is located at 84-505 84th Avenue, Oasis, California 92274, as shown on Attachment A; on a 166.6 acre parcel. It is located in the NE 1/4 of Section 31 T8S, R9E, SBB&M as shown on Attachment B.
5. Board Order No. 93-071 amended all municipal Solid Waste Landfill Board Orders to comply with federal regulations that were adopted by the California Regional Water Quality Control Board, Colorado River Basin Region (hereinafter referred to as the Regional Board). Board Order No. 93-071 is being updated to incorporate applicable closure regulations of combined SWRCB/CIWMB Regulations, Division 2, Title 27 (hereinafter referred to as Title 27) and the requirements of Part 258 of the Resource Conservation and Recovery Act, Subtitle D (hereinafter referred to as RCRA Subtitle D).
6. The WMF is located within the Salton Trough Physiographic Province which extends from the upper Coachella Valley to the Gulf of California. Surficial geology of the WMF is characterized by coarse grained alluvial fan and stream wash deposits as shown on Attachment C.

7. No active or potentially active faults are known or have been mapped on or adjacent to the site. The nearest active fault zones to the site are the San Andreas Fault Zone (approximately 10 miles northeast of the site) and the San Jacinto Fault Zone (approximately 14 miles to the southwest). The site is not within a Fault Hazard Zone as identified on the Seismic/Geologic Map in the Riverside County Comprehensive General Plan (RCCGP).

The site is not located within a Liquefaction Hazard Zone as indicated on the Seismic/Geologic Map in the RCCGP. Landslides have not been mapped or are known to exist on the site.

8. The Landfill started accepting waste in 1972. In 1983, the Landfill became subject to Waste Discharge Requirements under Board Order No. 83-093. The Waste Discharge Requirements were updated and superceded by Board Order No. 88-138.

Presently, the Landfill accepts 400 tons/year of Class III municipal solid waste consisting of:

- a. Agricultural
 - b. Construction/demolition
 - c. Mixed municipal
 - d. Industrial
 - e. Dead animals
 - f. Tires
9. The discharger submitted a Final Solid Waste Assessment Test (SWAT) report in November 1990. During the SWAT investigation, the discharger installed three ground water monitoring wells. Monitoring well OMW-2 was constructed upgradient, and OMW-1 and OMW-3 were constructed downgradient of the Landfill as shown on Attachment D.
 10. The SWAT report indicated no release of pollutants from the Landfill to the ground water.
 11. The ground water flow beneath the Landfill is toward the northeast at approximately 2.2 percent gradient.
 12. The discharger reports that the depth to ground water is between 55 to 70 feet below ground surface.
 13. The discharger submitted preliminary closure and post closure maintenance plans (PCPCMP) on November 21, 1995. The PCPCMP was approved by the Regional Board on September 21, 1996.
 14. The Landfill is open two days a year.
 15. The Landfill is scheduled to close in the year 2186.
 16. The discharger reports that the WMF is designed to route surface drainage away from the Landfill areas through a system of drainage levees/berms. The off-site drainage from the tributary area is redirected around the site through peripheral levees/berms. On-site runoff is controlled by lateral sheet flow and berms and directed to the north and east.
 17. In 1988, the discharger installed four gas monitoring probes around the Landfill boundary. The gas monitoring probes were installed to monitor any gas release from the Landfill.

18. In 1998, the discharger installed two additional ground water monitoring wells OMW-2a and OMW-3a to replace OMW-2 and OMW-3.
19. The total design capacity of the Landfill including refuse and daily cover is 1,484,000 (per permit application) cubic yards(yd³). As of December 31, 1999, the net remaining disposal capacity of the Landfill is approximately 150,844 yd³ of refuse.
20. The Landfill is not lined and does not have a leachate collection removal system.
21. For hazardous materials, random load-checking is performed. Hazardous materials found are transported to the Central Accumulation Storage Facility for temporary storage. Hazardous waste stored will be transported to an appropriate site within 90 days.
22. The area fill method is used for waste disposal at the Landfill. Waste is compacted at the end of the working day.
23. The annual average precipitation and evaporation rates in the area are 3.25 inches and 105 inches, respectively.
24. The 100-year, 24-hour storm event for the Landfill can generate up to 27.8 CFS.
25. The site is not within the 100-year flood plain.
26. The Landfill is located in the Ward Hydrologic Unit.
27. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) was adopted on November 17, 1993, and designates the beneficial uses of ground and surface waters in this Region.

The beneficial uses of ground waters in the Ward Hydrologic Unit are:

- a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural (AGR)
28. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
 29. The Board in a public meeting heard and considered all comments pertaining to this discharge.
 30. The Regional Board finds that the 23.3 acre Landfill project is in compliance with the provisions of Title 27, as well as 40 CFR Parts 257 and 258, the Federal RCRA Subtitle "D" (Subtitle D) regulations promulgated by the U.S. Environmental Protection Agency (EPA) on October 9, 1991, effective October 9, 1993.
 31. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et. seq.).

IT IS HEREBY ORDERED, that Board Order No. 88-138 is rescinded, and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Specifications

1. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Section 13050 of Division 7 of the California Water Code.
2. Waste materials shall be confined to the waste management facility as defined in Finding No. 3(a) and described in the attached site maps.
3. Waste material shall not be discharged on any ground surface which is less than five feet above the highest anticipated ground water level.
4. The discharge shall not cause degradation of any water supply.
5. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources, shall not contact or percolate through the wastes discharged at this site.
6. The exterior surfaces of the disposal area, including the intermediate and final landfill covers, shall be graded and maintained to promote lateral runoff of precipitation and to prevent ponding.
7. The discharger shall use the constituents listed in Monitoring and Reporting Program No. 00-052 and revisions thereto, as "monitoring parameters". These monitoring parameters are subject to the most appropriate statistical or non-statistical tests under Monitoring and Reporting No. 00-052, Part III, and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer.
8. The discharger shall implement the attached Monitoring and Reporting Program No. 00-052 and revisions thereto in order to detect, at the earliest opportunity, any unauthorized discharge of waste constituents from the Landfill, or any unreasonable impairment of beneficial uses associated with (caused by) discharges of waste to the Landfill.
9. The discharger shall not cause the concentration of any Constituent of Concern or Monitoring Parameters to exceed its respective background value in any monitored medium at any Monitoring Point assigned to Detection Monitoring pursuant to Parts II B.4 of the attached Monitoring and Reporting Program No. 00-052 and revisions thereto.
10. The discharger shall follow the Water Quality Protection Standards (WQPS) for detection monitoring established by the Regional Board in this Board Order pursuant to Title 27, Section 20390. The following are five parts of WQPS as established by the Regional Board (the terms of art used in this Board Order regarding monitoring are defined in Part I of the attached Monitoring and Reporting Program No. 00-052 and revisions thereto, which is hereby incorporated by reference):

- a. The discharger shall test for the monitoring parameters and the Constituent of Concern (COC) listed below and in Monitoring and Reporting Program No. 00-052, and revisions thereto, for:
 1. pH
 2. Total Dissolved Solids
 3. Specific Conductance
 4. Temperature
 5. Chloride
 6. Sulfate
 7. Nitrate
 8. Ground Water Elevation
 9. Volatile Organics
 - b. Concentration Limit - The concentration limits for each monitoring parameter and constituents of concern for each monitoring point (as stated in Detection Monitoring Program Part II), shall be its background value as obtained during that reporting period.
 - c. Monitoring points and background monitoring points for detection monitoring shall be those listed below and in Part II.B of the attached Monitoring and Reporting Program No. 00-052, and any revised Monitoring and Reporting Program approved by the Regional Board's Executive Officer. Monitoring and background monitoring points are also shown on Attachment D:
 - i. Background point OMW-2a
 - ii. Point of compliance OMW-1 and OMW-3a
 - d. The points of compliance are shown on Attachment D and extend through the zone of saturation.
 - e. Compliance period - The estimated duration of the compliance period for this Landfill is six years. Each time the Standard is not met (i.e., releases discovered), the Landfill begins a compliance period on the date the Regional Board directs the dischargers to begin an Evaluation Monitoring Program. If the dischargers' Corrective Action Program (CAP) has not achieved compliance with the standard by the scheduled end of the Compliance Period, the Compliance Period is automatically extended until the Landfill has been in continuous compliance for at least three consecutive years.
11. One year prior to the anticipated closure of the facility or any unit (portion) thereof, the discharger shall submit to the Regional Board, for review and approval by the Regional Board's Executive Officer, a final closure and post-closure maintenance plan in accordance with Chapter 3, Subchapter 4 and Chapter 4, Subchapter 4 of Title 27. The final closure and post-closure maintenance plan shall include seismicity studies.
 12. The discharger shall remove and relocate any wastes that are discharged at this site in violation of these requirements.
 13. Water used for site maintenance shall be limited to amounts necessary for dust control.

14. The discharger shall maintain a hazardous waste load-checking program at the Landfill. The discharger shall report the result of the load-checking program in the quarterly monitoring reports submitted in accordance with Monitoring and Reporting Program No. 00-052 and revisions thereto.
15. The Landfill shall be protected from any washout or erosion of wastes or covering material, and from any inundation which could occur as a result of floods having a predicted frequency of once in 100 years.
16. The discharge shall not cause the release of pollutants, or waste constituents in a manner which could cause a condition of contamination, or pollution to occur, as directed by the most appropriate statistical (or non-statistical) data analysis method and retest method listed in Part III of the attached Monitoring and Reporting Program No. 00-052 and revisions thereto.

B. Prohibitions

1. The discharge or deposit of hazardous waste (as defined in Title 27) at this site is prohibited.
2. The discharge or deposit of designated waste (as defined in Title 27) at this site is prohibited unless approved by the Regional Board's Executive Officer.
3. The co-disposal of incompatible wastes is prohibited.
4. The discharge of waste to land not owned or controlled by the discharger is prohibited.
5. The discharge shall neither cause nor contribute to the contamination or pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
6. The direct discharge of any waste to any surface waters or surface drainage courses is prohibited.
7. The discharge of liquid or semi-solid waste (i.e. waste containing less than 50 percent solids) to the Landfill is prohibited unless approved by the Regional Board's Executive Officer.


C. Provisions

1. The discharger shall comply with "Monitoring and Reporting Program" No. 00-052, and future revisions thereto, as specified by the Regional Board's Executive Officer.
2. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
3. The discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
4. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
5. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.
6. The discharge shall neither cause nor contribute to the contamination or pollution of ground water via the release of waste constituents in either liquid or gaseous phase.
7. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
8. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.
9. All regulated disposal systems shall be readily accessible for sampling and inspection.
10. The discharger is the responsible party for the waste discharge requirements and the monitoring and reporting program for the facility. The discharger shall comply with all conditions of these waste discharge requirements. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board.
11. The discharger shall furnish, under penalty of perjury, technical monitoring program reports, and such reports shall be submitted in accordance with the specifications prepared by the Regional Board's Executive Officer. Such specifications are subject to periodic revisions as may be warranted.
12. All containment structures and erosion and drainage control systems shall be designed and constructed under direct supervision of a California Registered Civil Engineer or Certified Engineering Geologist, and shall be certified by the individual as meeting the prescriptive standards and performance goals of Title 27.
13. The discharger shall within 48 hours of a significant earthquake event, submit to the Regional Board a detailed post-earthquake report describing any physical damages to the containment features, ground water monitoring and/or leachate control facilities and a corrective action plan to be implemented at the landfill.
14. The discharger shall immediately notify the Regional Board of any flooding, slope failure or other change in site conditions which could impair the integrity of waste containment facilities or of precipitation and drainage control structures.

15. The discharger shall maintain legible records on the volume and type of each waste discharged at the site. These records shall be available for review by representatives of the Regional Board at any time during normal business hours. At the beginning of the post-closure maintenance period, copies of these records shall be sent to the Regional Board.
16. The discharger shall maintain visible monuments identifying the boundary limits of the entire waste management facility.
17. The discharger shall submit to this Regional Board and to the California Integrated Waste Management Board, evidence of Financial Assurance for Closure and Post Closure, pursuant to Section 22207 and 22212 of Title 27. The post-closure period shall be at least 30 years. However, the post-closure maintenance period shall extend as long as the waste poses a threat to water quality.
18. Within 180 days of the adoption of this Board Order, the discharger shall submit to the Regional Board in accordance with Section 20380(b) of Title 27, assurance of financial responsibility acceptable to the Regional Board's Executive Officer for initiating and completing corrective action for all known or reasonable foreseeable releases from the Landfill.
19. This Board Order is subject to Regional Board review and updating, as necessary, to comply with changing State or Federal laws, regulations, policies, or changes in the discharger characteristics.

I, Philip A. Gruenberg, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on May 10, 2000.



Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 00-052

FOR

COUNTY OF RIVERSIDE, OWNER/OPERATOR

OASIS SANITARY LANDFILL

CLASS III LANDFILL

South of Oasis - Riverside County

CONSIST OF

PART I, PART II AND PART III

PART I

A. GENERAL

Responsibilities of waste dischargers are specified in Section 13225(a), 13267(b), and 13387(b) of the California Water Code, and the State Water Resources Control Board's Resolution No. 93-062. This self-monitoring program is issued pursuant to Provision No. 10 of Regional Board Order No. 00-052. The principal purposes of a self-monitoring program by a waste discharger are:

1. To document compliance with waste discharge requirements and prohibitions established by the Regional Board.
2. To facilitate self-policing by the discharger in the prevention and abatement of pollution arising from waste discharge;
3. To prepare water quality analyses;
4. To prepare vadose zone (unsaturated zone) gas, if applicable, and liquid quality analyses.

B. DEFINITION OF TERMS

1. The "Monitored Media" are those water-or-gas-bearing media that are monitored pursuant to this Monitoring and Reporting Program. The Monitored Media may include: (1) ground water in the uppermost aquifer, in any other portion of the zone of saturation (Title 27, Section 20164) in which it would be reasonable to anticipate that waste constituents migrating from the Unit could be detected, and in any perched zones underlying the Unit; (2) any bodies of surface water that could be measurably affected by a release; (3) soil-pore liquid beneath and/or adjacent to the Unit; and (4) soil-pore gas beneath and/or adjacent to the Unit.
2. The "Constituents of Concern (COC)" are those constituents which are likely to be in the waste in the Unit or which are likely to be derived from waste constituents, in the event of a release.
3. The "Monitoring Parameters" consists of a short list of constituents and parameters used for the majority of monitoring activity.
4. The "Volatile Organics Composite Monitoring Parameter for Water (VOC_{water})" and the "Volatile Organics Composite Monitoring Parameter for Soil-Pore Gas (VOC_{soq})" are composite Monitoring Parameters addressing all volatile organic constituents detectable in a sample of water or soil-pore gas, respectively. (See Part III.A.2. of this Program for additional discussion of these Monitoring Parameters).
5. "Standard Observations" refers to:
 - a. For Receiving Waters:
 1. Floating and suspended materials of waste origin: presence or absence, source, and size of affected area;

2. Discoloration and turbidity: description of color, source, and size of affected area;
 3. Evidence of odors: presence or absence, characterization, source, and distance of travel from source;
 4. Evidence of beneficial use: presence of water-associated wildlife;
 5. Flow Rate; and
 6. Weather conditions: wind direction and estimated velocity, total precipitation during the previous five days and on the day of observation.
- b. Along the perimeter of the Unit:
1. Evidence of liquid leaving or entering the Unit, estimated size of affected area, and flow rate (show affected area on map);
 2. Evidence of odors: presence or absence, characterization, source, and distance of travel from source; and
 3. Evidence of erosion and/or of exposed refuse.
- c. For the Unit:
1. Evidence of ponded water at any point on the waste management facility (show affected area on map);
 2. Evidence of odors: presence or absence, characterization, source, and distance of travel from source;
 3. Evidence of erosion and/or of day lighted refuse; and
 4. "Standard Analysis and Measurements", which refers to:
 - a. Turbidity (only for water samples) in NTU;
 - b. Water elevation to the nearest 1/100th foot above mean sea level (only for ground water monitoring); and
 - c. Sampling and statistical/non-statistical analysis of the Monitoring Parameters.
6. "Matrix Effect" refers to any increase in the Method Detection Limit or Practical Quantitation Limit for a given constituent as a result of the presence of other constituents - either of natural origin or introduced through a release - that are present in the sample of water or soil-pore gas being analyzed.

7. "Facility-Specific Method Detection Limit (MDL)", for a given analytical laboratory using a given analytical method to detect a given constituent (in spite of any Matrix Effect) means the lowest concentration at which the laboratory can regularly differentiate - with 99% reliability - between a sample which contains the constituent and one which does not.
8. "Facility-Specific Practical Quantitation Limit (PQL)", for a given analytical laboratory using a given analytical method to determine the concentration of a given constituent (in spite of any Matrix Effect) means the lowest constituent concentration the laboratory can regularly quantify within specified limits of precision that are acceptable to the Regional Board's Executive Officer.
9. "Reporting period" means the duration separating the submittal of a given type of monitoring report from the time the next iteration of that report is scheduled for submittal. Therefore, the reporting period for monitoring parameters is semi-annually, and the reporting period for Constituents of Concern is every five years. An annual report, which is a summary of all the monitoring during the previous year, shall also be submitted to the Regional Board. The submittal dates for each reporting period shall be as follows:
 - a. Semi-Annual Monitoring Reports
 1. First semi-annual (October 1 through March 31) - report due by April 30
 2. Second semi-annual (April 1 through September 30) - report due by October 30
 - b. Annual Summary Report
April 1 through March 31 - report due on April 30
 - c. Five year Report
January of the first year through December of the fifth year and every five years after that, as long as the Landfill is in operation - report due by April 30 of the sixth year.

C. SAMPLING AND ANALYTICAL METHODS

Sampling collection, storage, and analysis shall be performed according to the most recent version of Standard USEPA methods, and in accordance with an approved sampling and analysis plan. Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. Specific methods of analysis must be identified. If methods other than USEPA-approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board's Executive Officer prior to use. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and shall sign all reports of such work submitted to the Regional Board. All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements. In addition, the discharger is responsible for seeing that the laboratory analysis of all samples from Monitoring Points and Background Monitoring Points meets the following restrictions:

- a. The methods and analysis and the detection limits used must be appropriate for the expected concentrations. For detection monitoring of any constituent or parameter that is found in concentrations which produce more than 90% non-numerical determinations (i.e. "trace" or "ND") in data from Background Monitoring Points for that medium, the analytical methods having the lowest "facility-specific method detection limit (MDL)", defined in Part I.B.7., shall be selected from among those methods which would provide valid results in light of any "Matrix Effects" (defined in Part I.B.6.) involved.
- b. "Trace" results, results falling between the MDL and the facility-specific practical quantitation limit (PQL), shall be reported as such, and shall be accompanied both by the estimated MDL and PQL values for that analytical run and by an estimate of the constituents concentration.
- c. MDLs and PQLs shall be derived by the laboratory for each analytical procedure, according to State of California laboratory accreditation procedures. These MDLs and PQLs shall reflect the detection and quantitation capabilities of the specific analytical procedure and equipment used by the lab, rather than simply being quoted from USEPA analytical method manuals. If the lab suspects that, due to a change in matrix or other effects, the true detection limit or quantitation limit for a particular analytical run differs significantly from the laboratory-derived MDL/PQL values, the results shall be flagged accordingly, along with an estimate of the detection limit and quantitation limit actually achieved.
- d. All QA/QC data shall be reported, along with the sample results to which it applies, including the method, equipment, and analytical detection limits, the recovery rates, an explanation of any recovery rate that is less than 80%, the results of equipment and method blanks, the results of spiked and surrogate samples, the frequency of quality control analysis, and the name and qualifications of the person(s) performing the analyses. Sample results shall be reported unadjusted for blank results or spike recovery.
- e. Upon receiving written approval from the Regional Board's Executive Officer, an alternative statistical or non-statistical procedure can be used for determining the significance of analytical results for a constituent that is a common laboratory contaminant (i.e., methylene chloride, acetone, diethylhexyl phthalate, and di-n-octyl phthalate) during any given Reporting Period in which QA/QC samples show evidence of laboratory contamination for that constituent. Nevertheless, analytical results involving detection of these analytes in any background or downgradient sample shall be reported and flagged for easy reference by Regional Board staff.
- f. Unknown chromatographic peaks shall be reported, along with an estimate of the concentration of the unknown analyte. When unknown peaks are encountered, second column or second method confirmation procedures shall be performed to attempt to identify and more accurately quantify the unknown analyte.
- g. In cases where contaminants are detected in QA/QC samples (i.e. field, trip, or lab blanks), the accompanying sample results shall be appropriately flagged.
- h. The MDL shall always be calculated such that it represents a concentration associated with a 99% reliability of a non-zero result.

D. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the discharger or laboratory, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:

1. Identity of sample and of the Monitoring Point or Background Monitoring Point from which it was taken, along with the identity of the individual who obtained the sample;
2. Date and time of sampling;
3. Date and time that analyses were started and completed, and the name of the personnel performing each analysis;
4. Complete procedure used, including method of preserving the sample, and the identify and volumes of reagents used;
5. Calculations of results; and
6. Results of analyses, and the MDL and PQL for each analysis.

E. REPORTS TO BE FILED WITH THE BOARD

1. A written "Detection Monitoring Report" shall be submitted twice annually (Part II.B.2.), in addition to an "Annual Summary Report" (Part I.E.3.). Every five years, the discharger shall submit a report concerning the direct analysis of all Constituents of Concern as indicated in Part II.B.3. ("COC Report"). All reports shall be submitted no later than one month following the end of their respective Reporting Period. The reports shall be comprised of at least the following:

- a. Letter of Transmittal

A letter transmitting the essential points in each report shall accompany each report. Such a letter shall include a discussion of any requirement violations found since the last such report was submitted, and shall describe actions taken or planned for correcting those violations. If the discharger has previously submitted a detailed time schedule for correcting said requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred since the last submittal, this shall be stated in the letter of transmittal. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice-president or above, or by his/her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct;

- b. Each Detection Monitoring Report and each COC Report shall include a compliance evaluation summary. The summary shall contain at least:

1. For each monitored ground water body, a description and graphical presentation of the velocity and direction of the ground water flow under/around the Unit, based upon water level elevations taken during the collection of the water quality data submitted in the report;
 2. Pre-Sampling Purge for Samples Obtained From Wells: For each monitoring well addressed by the report, a description of the method and time of water level measurement, of the type of pump used for purging and the placement of the pump in the well, and of the method of purging (the pumping rate, the equipment and methods used to monitor field pH, temperature, and conductivity during purging, the calibration of the field equipment, results of the pH, temperature, conductivity, and the method of disposing of the purge water);
 3. Sampling: For each Monitoring Point and Background Monitoring Point addressed by the report, a description of the type of pump - or other device - used and its placement for sampling, and a detailed description of the sampling procedure (number and description of the samples, field blanks, travel blanks, and duplicate samples taken, the type of containers and preservatives used, the date and time of sampling, the name and qualifications of the person actually taking the samples, and any other observations);
 4. Post-Sampling Purge (Title 27, Section 20415(e)(2)(B): For each monitoring well addressed by the report, a description of how the well was purged to remove all portions of the water that was in the well bore while the sample was being taken;
- c. A map or aerial photograph showing the locations of observation stations, Monitoring Points, and Background Monitoring Points;
 - d. For each Detection Monitoring Report and each COC Report, include laboratory statements of results of all analyses demonstrating compliance with Part I.B.;
 - e. An evaluation of the effectiveness of the leachate monitoring and control facilities, and of the run-off/run-on control facilities;
 - f. A summary and certification of completion of all Standard Observations (Part I.B.5.) for the Unit, for the perimeter of the Unit, and for the Receiving Waters; and
 - g. The quantity and types of wastes discharged.

2. CONTINGENCY REPORTING

- a. The discharger shall report by telephone concerning any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Regional Board within seven days, containing at least the following information:

1. A map showing the location(s) of seepage;
 2. An estimate of the flow rate;
 3. A description of the nature of the discharge (e.g., all pertinent observations and analyses); and
 4. Corrective measures underway or proposed.
- b. Should the initial statistical comparison (Part III.A.1.) or non-statistical comparison (Part III.A.2.) indicate, for any Constituent or Concern of Monitoring Parameter, that a release is tentatively identified, the discharger shall immediately notify the Regional Board verbally as to the Monitoring Point(s) and constituents(s) or parameter(s) involved, shall provide written notification by certified mail within seven days of such determination (Section 20420(j)(1) of Title 27), and shall carry out a discrete retest in accordance with Parts II.C.1., and III.A.3. If the retest confirms the existence of a release, the discharger shall carry out the requirements of Part I.E.2.d. In any case, the discharger shall inform the Regional Board of the outcome of the retest as soon as the results are available, following up with written results submitted by certified mail within seven days of completing the retest.
- c. If either the discharger or the Regional Board determines that there is significant physical evidence of a release (Section 20385(3) of Title 27), the discharger shall immediately notify the Regional Board of this fact by certified mail (or acknowledge the Regional Board's determination) and shall carry out the requirements of Part I.E.2.d. for all potentially-affected monitored media.
- d. If the discharger concludes that a release has been discovered:
- i. If this conclusion is not based upon "direct monitoring" of the Constituents of Concern, pursuant to Part II.B.3., then the discharger shall, within thirty days, sample for all Constituents of Concern at all Monitoring Points and submit them for laboratory analysis. Within seven days of receiving the laboratory analytical results, the discharger shall notify the Regional Board, by certified mail, of the concentration of all Constituents of Concern at each Monitoring Point. Because this scan is not to be tested against background, only a single datum is required for each Constituent of Concern at each Monitoring Point (Section 20420(k)(1) of Title 27).
 - ii. The discharger shall, within 90 days of discovering the release, submit a Revised Report of Waste Discharge proposing an Evaluation Monitoring Program meeting the requirements of Section 20420(k)(5) and Section 20425 of Title 27; and
 - iii. The discharger shall, within 180 days of discovering the release, submit a preliminary engineering feasibility study meeting the requirements of Section 20420(k)(6) of Title 27.
- e. Any time the discharger concludes - or the Regional Board Executive Officer directs the discharger to conclude - that a liquid - or gaseous-phase release from the Unit has proceeded beyond the facility boundary, the discharger shall so notify all persons who either own or reside upon the land that directly overlies any part of the plume (Affected Persons).

1. Initial notification to Affected Persons shall be accomplished within 14 days of making this conclusion and shall include a description of the discharger's current knowledge of the nature and extent of the release; and
2. Subsequent to initial notification, the discharger shall provide updates to all Affected Persons - including any newly Affected Persons - within 14 days of concluding there has been any material change in the nature or extent of the release.

3. ANNUAL SUMMARY REPORT

The discharger shall submit an annual report to the Regional Board covering the previous monitoring year. The Reporting Period ends March 31. This report shall contain:

- a. A Graphical Presentation of Analytical Data (Section 20415(e)(14) of Title 27 2550.7(e)(14)). For each Monitoring Point and Background Monitoring Point, submit in graphical format the laboratory analytical data for all samples taken within at least the previous five calendar years. Each such graph shall plot the concentration of one or more constituents over time for a given Monitoring Point and Background Monitoring Point, at a scale appropriate to show trends or variations in water quality. The graphs shall plot each datum, rather than plotting mean values. For any given constituent or parameter, the scale for background plots shall be the same as that used to plot downgradient data. On the basis of any aberrations noted in the plotted data, the Regional Board's Executive Officer may direct the discharger to carry out a preliminary investigation (Section 20080 (d)(2) of Title 27), the results of which will determine whether or not a release is indicated;
- b. All monitoring analytical data obtained during the previous two six-month Reporting Periods, shall be presented in tabular form as well as on 3.5" diskettes, either in MS-DOS/ASCII format or any other file format acceptable to the Regional Board's Executive Officer. Data sets too large to fit on a single 360 K.B. diskette may be submitted on disk in a commonly available compressed format (e.g., PK-ZIP or NORTON BACKUP). The Regional Board regards the submittal of data in hard copy and on diskette as "...the form necessary for..." statistical analysis (Section 20420(h) of Title 27), in that this facilitates periodic review by the Regional Board's statistical consultant;
- c. A comprehensive discussion of the compliance record, and the result of any correction actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements;
- d. A written summary of the ground water and soil-pore gas analyses, indicating any changes made since the previous annual report; and
- e. An evaluation of the effectiveness of the leachate monitoring/control facilities, pursuant to Section 20340 (2550.8 (b, c, & d)).

PART II: MONITORING AND OBSERVATION SCHEDULE

A. WASTE MONITORING

Report annually, as part of the Monitoring Report on April 30.

1. Record the total volume and weight of refuse in cubic yards and tons) disposed of at the site during each month, showing locations and dimensions on a sketch or map.
2. Record a description of the waste stream, including the percentage of the waste type (i.e., residential, commercial, industrial, or construction debris).

B. WATER AND SOIL-PORE GAS SAMPLING/ANALYSIS FOR DETECTION MONITORING

1. Thirty-Day Sample Procurement Limitation. For any given monitored medium, the samples taken from all Monitoring Points and Background Monitoring Points to satisfy the data analysis requirements for a given reporting period shall all be taken within a span not exceeding 30 days, and shall be taken in a manner that insures sample independence to the greatest extent feasible (Section 20415(E)(12)(B) of Title 27). Ground water sampling shall also include an accurate determination of the ground water surface elevation and field parameters (temperature, electrical conductivity, turbidity) for that Monitoring Point or Background Monitoring Point (Section 20415(e)(13) of Title 27); ground water elevations taken prior to purging the well and sampling for Monitoring Parameters shall be used to fulfill the Spring and Fall ground water flow rate/direction analyses required under Part II.B.6. Statistical or non-statistical analysis shall be carried out as soon as the data is available, in accordance with Part III of this program.
2. "Indirect Monitoring" for Monitoring Parameters done semi-annually. For each monitored medium, all Monitoring Points assigned to Detection Monitoring (Part II B.4 below) and all Background Monitoring Points shall be monitored once each Spring and Fall (Winter/Spring and Summer/Fall Reporting Periods ending March 31 and September 30 respectively) for the Monitoring Parameters listed in Part III.B. Monitoring for Monitoring Parameters shall be carried out in accordance with Part II.B.1 and II of this program.
3. "Direct Monitoring" of all Constituents of Concern Every Five Years. In the absence of a release being indicated (1) pursuant to Parts II.B.2. and III.A.3. for a Monitoring Parameter, (2) based upon physical evidence, pursuant to Part I.E.2.c., or (3) by a study required by the Regional Board's Executive Officer based upon anomalies noted during visual inspection of graphically-depicted analytical data (Part I.E.3.a.), then the discharger shall sample all Monitoring Points and Background Monitoring Points of water-bearing media, not including soil-pore gas, for all Constituents of Concern every fifth year, beginning with the year of adoption of this Board Order, with successive direct monitoring efforts being carried out alternately in the Spring of one year (Report Period ends March 31) and the Fall of the fifth year thereafter (Reporting Period ends September 30). Direct monitoring for Constituents of Concern shall be carried out in accordance with Parts II.B.1. and III of this program, and shall encompass only those Constituents of Concern that do not also serve as a Monitoring Parameter.

4. Monitoring Points and Background Monitoring Points for Each Monitored Medium: The discharger shall sample the following Monitoring Points and Background Monitoring Points in accordance with the sampling schedules given under Parts II.B.2. and II.B.3. (immediately foregoing), taking enough samples to qualify for the most appropriate test under Part III.
 - a. Background Monitoring Point: OMW-2a
 - b. Monitoring Points (Points of Compliance): OMW-1, and OMW-3a.
5. Initial Background Determination: For the purpose of establishing an initial pool of background data for each Constituent of Concern at each Background Monitoring Point in each monitored medium (Section 25415 (e)(6) of Title 27 (Section 2550.7(e)(6) of chapter 15)):
 - a. Whenever a new Constituent of Concern is added to the Water Quality Protection Standard, including any added by the adoption of this Board Order, the discharger shall collect at least one sample quarterly for at least one year from each Background Monitoring Point in each monitored medium and analyze for the newly-added constituent(s); and
 - b. Whenever a new Background Monitoring Point is added, including any added by this Board Order, the discharger shall sample it at least quarterly for at least one year, analyzing for all Constituents of Concern and Monitoring Parameters.
6. Quarterly Determination of Ground Water Flow Rate/Direction (Section 25415 (e)(6) of Title 27 (Section 2550.7(e)(6) of Chapter 15)): The discharger shall measure the water level in each well and determine ground water flow rate and direction in each ground water body described in Part II.B.4. at least quarterly, including the times of expected highest and lowest elevations of the water level for the respective ground water body. This information shall be included in the semi-annually monitoring reports required under Part II.B.2.

**PART III: STATISTICAL AND NON-STATISTICAL ANALYSES OF SAMPLE DATA
DURING A DETECTION MONITORING PROGRAM**

- A. The discharger shall propose appropriate data analysis method(s) for the approval of the Regional Board's Executive Officer, for comparing downgradient concentrations for each monitored constituent or parameter with its respective background concentration to determine if there has been a release from the WMF. Unless or until the discharger proposes an alternative data analysis method(s) acceptable to the Regional Board's Executive Officer, the discharger shall proceed sequentially down the list of statistical analysis methods listed in Part III.A.1., followed by the non-statistical method in Part III.A.2., using the first method for which the data qualifies. If an analysis tentatively indicates the detection of a release, the discharger shall implement the retest procedure under Part III.A.3.
1. Statistical Methods. The discharger shall use one of the following statistical methods to analyze Constituents of Concern or Monitoring Parameters which exhibit concentrations exceeding their respective MDL in at least ten percent of the background samples taken during that Reporting Period. Each of these statistical methods is more fully described in the Statistical Methods Discussion that is attached to this Program and is hereby incorporated by reference. Except for pH, which uses a two-tailed approach, the statistical analysis for all constituents and parameters shall be one-tailed (testing only for statistically significant increase relative to background):
- a. One-way Parametric Analysis of Variance ANOVA followed by multiple comparisons (Section 25415(e)(8)(A) of Title 27). This method requires at least four independent samples from each Monitoring Point and Background Monitoring Point during each sampling episode. It shall be used when the background data from the parameter of constituent, obtained during a given sampling period, has not more than 15% of the data below PQL. Prior to analysis, replace all 'trace' determinations with a value halfway between the PQL and the MDL values reported for that sample run, and replace all "non-detect" determinations with a value equal to half the MDL value reported for that sample run. The ANOVA shall be carried out at the 95% confidence level. Following the ANOVA, the data from each downgradient Monitoring Point shall be tested at a 99% confidence level against the pooled background data. If these multiple comparisons cause the Null Hypothesis (i.e., that there is no release) to be rejected at any Monitoring Point, the discharger shall conclude that a release is tentatively indicated from that parameter or constituent;
 - b. One-way Non-Parametric ANOVA (Kruskal-Wallis Test), followed by multiple comparisons. This method requires at least nine independent samples from each Monitoring Point and Background Monitoring Point, therefore, the discharger shall anticipate the need for taking more than four samples per Monitoring Point, based upon past monitoring results. This method shall be used when the pooled background data for the parameter or constituent, obtained within a given sampling period, has not more than 50% of the data below the PQL. The ANOVA shall be carried out 95% confidence level. Following the ANOVA, the data from each downgradient Monitoring Point shall be tested at 99% confidence level against the pooled background data. If these multiple comparisons cause the Null Hypothesis (i.e., that there is no release) to be rejected at any Monitoring Point, the discharger shall conclude that a release is tentatively indicated for that parameter or constituent; or
 - c. Method of Proportions. This method shall be used if the "combined data set", the data from a given Monitoring Point in combination with the data from the Background

Monitoring Points, has between 50% and 90% of the data below the MDL for the constituent or parameter in question. This method (1) requires at least nine downgradient data points per Monitoring Point per Reporting Period, (2) requires at least thirty data points in the combined data set, and (3) requires that $N * P > 5$ (where N is the number of data points in the combined data set and P is the proportion of the combined set that exceeds the MDL); therefore, the discharger shall anticipate the number of samples required, based upon past monitoring results. The test shall be carried out at the 99% confidence level. If the analysis results in rejection of the Null Hypothesis (i.e., that there is no release), the discharger shall conclude that a release is tentatively indicated for that constituent or parameter; or

- d. Other Statistical Methods. These include methods pursuant to Section 20415(e)(8)(c-e) of Title 27.
2. Non-Statistical Method. The discharger shall use the following non-statistical method for the VOC_{water} and VOC_{spg} Composite Monitoring Parameters and for all Constituents of Concern which are not amenable to the statistical tests under Part III.A.1.; each of these groupings of constituents utilizes a separate variant of the test, as listed below. Regardless of the variant used, the method involves a two-step process: (1) from all constituents to which the variant applies, compile a list of those constituents which exceed their respective MDL in the downgradient sample, yet do so in less than ten percent of the applicable background samples; and (2) (where several independent samples have been analyzed for that constituent at a given Monitoring Point) from the sample which contains the largest number of constituents. Background shall be represented by the data from all samples taken from the appropriate Background Monitoring Points during that Reporting Period (at least one sample from each Background Monitoring Point). The method shall be implemented as follows:
 - a. For the Volatile Organics Composite Monitoring Parameter for Water Samples (VOC_{water}): For any given Monitoring Point, the VOC_{water} Monitoring Parameter is a composite parameter addressing all VOCs detectable using the appropriate USEPA Method, including at least all 47 VOCs listed in Appendix I to 40 CFR 258, and all unidentified peaks. Compile a list of each VOC which (1) exceeds its MDL in the Monitoring Point sample (an unidentified peak is compared to its presumed (MDL), and also (2) exceeds its MDL in less than ten percent of the samples taken during that Reporting Period from that medium's Background Monitoring Points. The discharger shall conclude that a release is tentatively indicated for the VOC_{water} Composite Monitoring Parameter if the list either (1) contains two or more constituents, or (2) contains one constituent that exceeds its PQL;
 - b. For the Volatile Organics Composite Monitoring Parameter for Soil-Pore Gas Samples (VOC_{spg}): The VOC_{spg} Monitoring Parameter is a composite parameter for soil-pore gas addressing at least all 47 VOCs listed in Appendix I to 40 CFR 258, based upon either GC or GC/MS analysis of at least ten liter samples of soil-pore gas (e.g., collected in a vacuum canister). It involves the same scope of VOCs as does the VOC_{spg} Monitoring Parameter. Compile a list of each VOC which (1) exceeds its MDL in the Monitoring Point sample (as unidentified peak is compared to its presumed MDL), and also (2) exceeds its MDL in less than ten percent of the samples taken during that Reporting Period from the (soil-pore-gas) Background Monitoring Points. The discharger shall conclude that a release is tentatively indicated for the VOC_{spg} Composite Monitoring Parameter if the list either (1) contains two or more constituents, or (2) contains one constituent that exceeds its PQL; or

- c. For Constituents of Concern: Compile a list of constituents that exceed their respective MDL at the Monitoring Point yet do so in less than ten percent of the background samples taken during that Reporting Period. The discharger shall conclude that a release is tentatively indicated if the list either (1) contains two or more constituents, or (2) contains one constituent which exceeds its PQL.
3. Discrete Retest (Section 25415(e)(8)(E) of Title 27 (Section 2550.7(e)(8)(E) of Chapter 15)). In the event that the discharger concludes that a release has been tentatively indicated (under Parts III.A.1. or III.A.2.), the discharger shall, within 30 days of this indication, collect two new suites of samples for the indicated Constituent(s) of Concern or Monitoring Parameter(s) at each indicating Monitoring Point, collecting at least as many samples per suite as were used for the initial test. Re-sampling of the Background Monitoring Points is optional. As soon as the data is available, the discharger shall rerun the statistical method (or non-statistical comparison) separately upon each suite of retest data. For any indicated Monitoring Parameter or Constituent of Concern at an affected Monitoring Point, if the test results of either (or both) of the retest data suites confirms the original indication, the discharger shall conclude that a release has been discovered. All retests shall be carried out only for the Monitoring Point(s) for which a release is tentatively indicated, and only for the Constituent of Concern or Monitoring Parameter which triggered the indication there, as follows:
 - a. If an ANOVA method was used, the retest shall involve only a repeat of the multiple comparison procedure, carried out separately on each of the two new suites of samples taken from the indicating Monitoring Point;
 - b. If the Method of Proportions statistical test was used, the retest shall consist of a full repeat of the statistical test for the indicated constituent or parameter, using the new sample suites from the indicating Monitoring Point;
 - c. If the non-statistical method was used:
 1. Because the VOC Composite Monitoring parameters (VOC_{water} or VOC_{spg}) each address, as a single parameter, an entire family of constituents which are likely to be present in any landfill release, the scope of the laboratory analysis for each retest sample shall include all VOCs detectable in that retest sample. Therefore, a confirming retest for either parameter shall have validated the original indication even if the suite of constituents in the confirming retest sample(s) differs from that in the sample which initiated the retest;
 2. Because all Constituents of Concern that are jointly addressed in the non-statistical testing under Part III.A.2.c. remain as individual Constituents of Concern, the scope of the laboratory analysis for the non-statistical retest samples shall be narrowed to involve only those constituents detected in the sample which initiated the retest.

B. RESPONSES TO VOC DETECTION IN BACKGROUND

1. Except as indicated in Part III.B.2., any time the laboratory analysis of a sample from a Background Monitoring Point, sampled for VOCs under Part III.A., shows either (1) two or

more VOCs above their respective MDL, or (2) one VOC above its respective PQL, then the discharger shall immediately notify the Regional Board by phone that possible background contamination has occurred, shall follow up with written notification by certified mail within seven days,, and shall obtain two new independent VOC samples from that Background Monitoring Point and send them for laboratory analysis of all detectable VOCs within thirty days. If either or both the new samples validates the presence of VOC(s) at that Background Monitoring Point, using the above procedure, the discharger shall:

- a. Immediately notify the Regional Board about the VOC(s) verified to be present at that Background Monitoring Point, and follow up with written notification submitted by certified mail within seven days of validation; and
 - b. Within 180 days of validation, submit a report, acceptable to the Regional Board's Executive Officer, which examines the possibility that the detected VOC(s) originated from the Unit and proposing appropriate changes to the Monitoring Program.
2. If the Regional Board's Executive Officer determines, after reviewing the report submitted under Part III.B.1.b that the detected VOCs) most likely originated from the Unit, the discharger shall assume that a release has been detected and shall immediately begin carrying out the requirements of Part I.E.2.d.

SUMMARY OF SELF MONITORING AND REPORTING PROGRAMS

A. WASTE

	<u>Unit</u>	<u>Reporting Frequency</u>
1. Solid wastes discharged	Cubic Yards	Annually
2. Type of Materials discharged	---	Annually
3. Remaining capacity of Waste Management Facility	Cubic Yards	Annually
4. Any discharge of wastes other than those allowed by this Board Order	Type, volume and location	Immediately upon becoming aware that the waste has been discharged together with action for immediate correction and prevention of recurrence
5. Hazardous waste load checking and storage (not more than 90 days)	Cubic Yards	Quarterly

B. GROUND WATER MONITORING

1. The ground water monitoring wells shall be sampled semi-annually during October 1 through March 31 and April 1 through September 30. The samples shall be analyzed for the following:

<u>Parameter & Constituents</u>	<u>Unit</u>	<u>Type of Samples</u>	<u>Reporting Frequency</u>
1. pH	Number	Grab	Semi-annually
2. Total Dissolved Solids	mg/L	Grab	Semi-annually
3. Specific conductance	Micromhos/cm	Grab	Semi-annually
4. Temperature	°F	Grab	Semi-annually
5. Chloride	mg/L	Grab	Semi-annually
6. Sulfate	mg/L	Grab	Semi-annually
7. Nitrate	mg/L	Grab	Semi-annually
8. Ground Water Elevation	feet (USGS Datum)	Measurement	Semi-annually
9. Volatile Organics (EPA Methods 524.2)	µg/L	Grab	Semi-annually

The collection, preservation and holding times of all samples shall be in accordance with U. S. Environmental Protection Agency approved procedures. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

2. Annual monitoring parameters are the same as semi-annual parameters.
3. The five-year monitoring event shall include the COCs.

REPORTING

1. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
2. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurement(s);
 - b. The individual(s) who performed the sampling or measurement(s);
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or method used; and
 - f. The results of such analyses.

3. Each report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

4. A duly authorized representative of the discharger may sign the documents if:

- a. The authorization is made in writing by the person described above;
- b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
- c. The written authorization is submitted to the Regional Board's Executive Officer.

5. Report immediately any failure in the waste disposal system to the Regional Board's Executive Officer and the Director of the County Environmental Health Department by telephone with follow-up letter.

6. Monitoring reports shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this monitoring report.

7. Semi-annual monitoring report shall be submitted to the Regional Board in accordance with the following schedule:

First Semi-annual (October 1 through March 31) – report due April 30

Second Semi-annual (April 1 through September 30) – report due October 30

8. Annual monitoring reports shall be submitted to the Regional Board by April 30 of each year.

9. Five-year monitoring reports shall be submitted to the Regional Board by April 30 of the 6th year.

10. Submit monitoring report to:

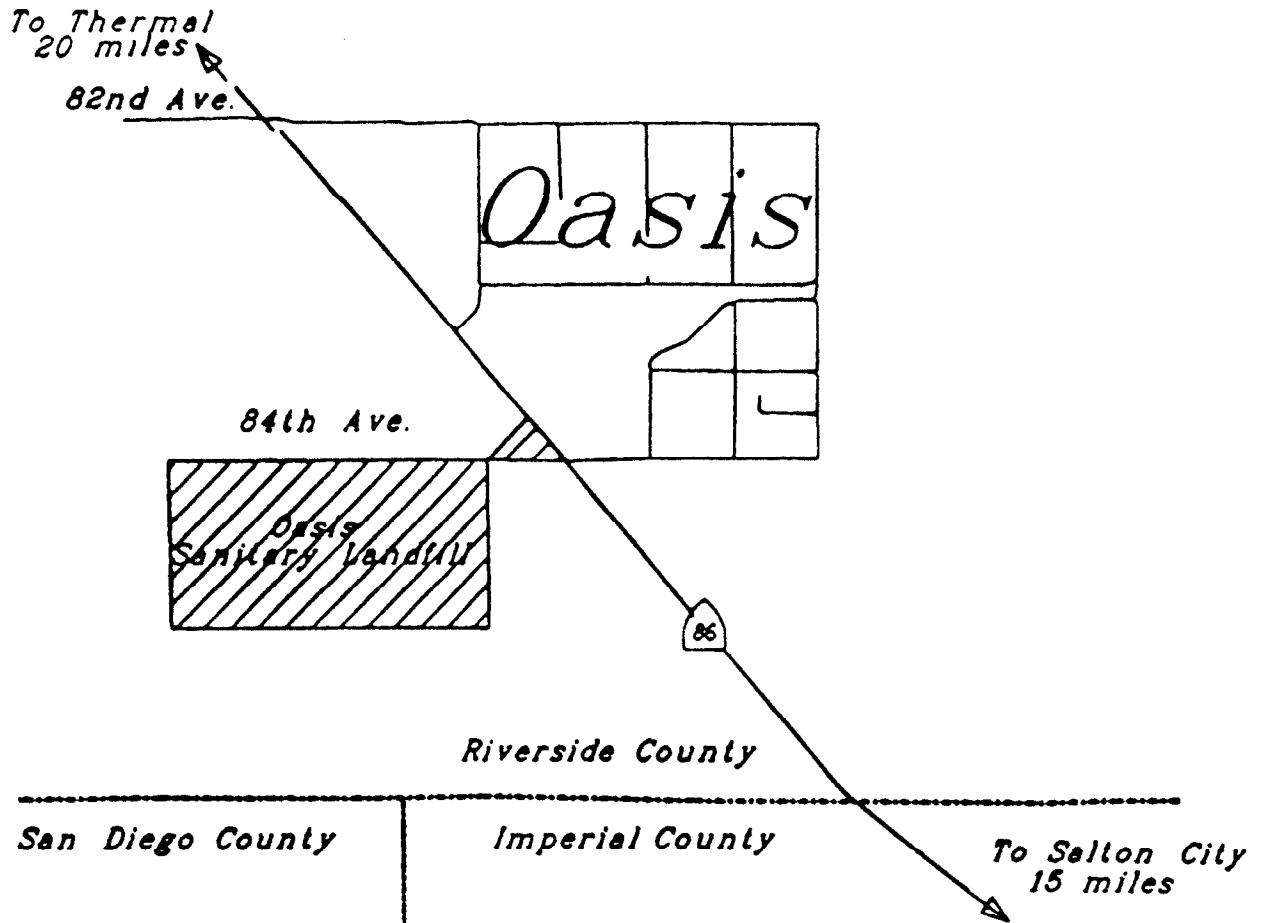
California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260

Ordered by: Philip A. Gruenberg
Executive Officer

May 10, 2000
Date

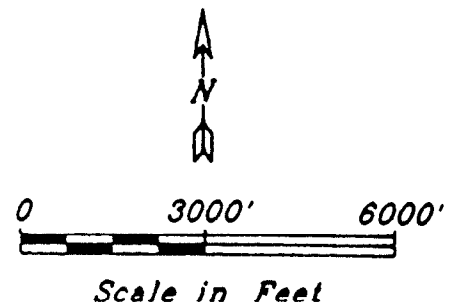
Oasis Sanitary Landfill Vicinity Map

Por. Secs. 29 & 31 T8S R9E S.B.B.M.



Legend

Paved Access Roads ———
Other Roads ———
Sanitary Landfill 

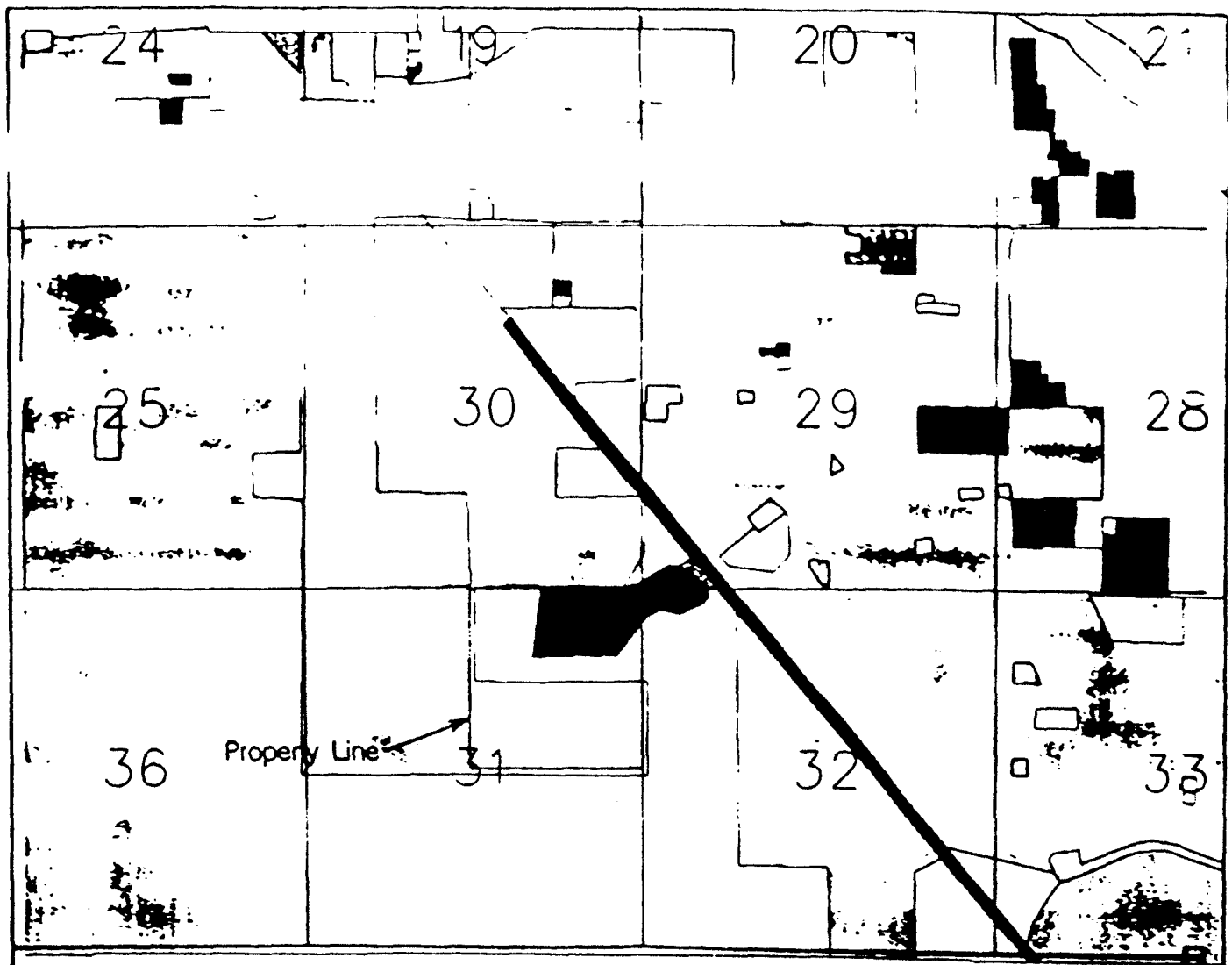


CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ATTACHMENT A

COUNTY OF RIVERSIDE
OASIS SANITARY LANDFILL
CLASS III LANDFILL
South of Oasis - Riverside County
NE 1/4 of Section 31 T8S, R9E, SBB&M

BOARD ORDER NO. 00-052



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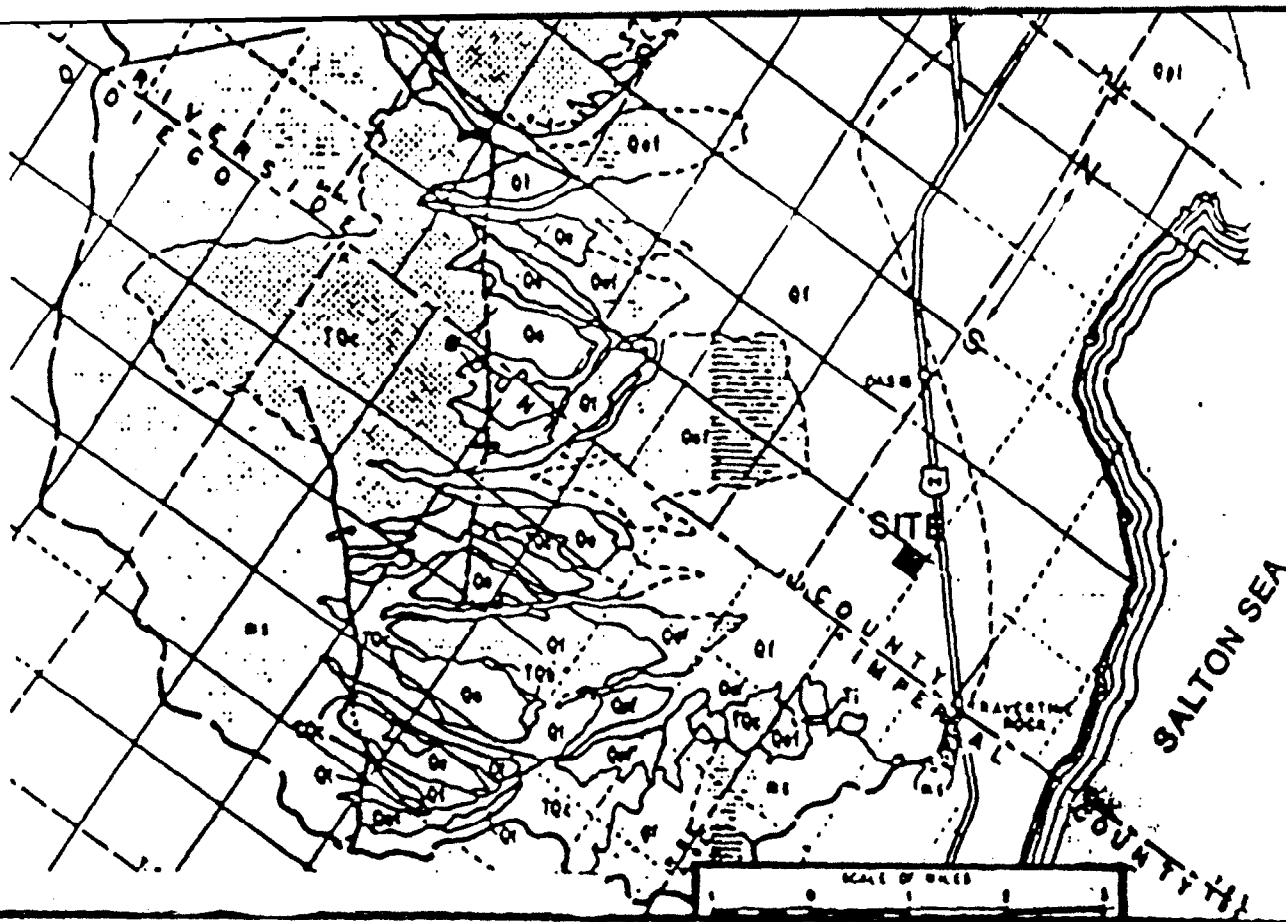
- IRRIGATED CROPLAND AND IMPROVED PASTURE LAND
- NURSERIES
- ABANDONED ORCHARDS AND VINEYARDS
- ORCHARDS AND VINEYARDS
- OTHER AGRICULTURE
- PACKING HOUSES AND GRAIN ELEVATORS
- MODERN STRIP DEVELOPMENT
- RURAL RESIDENTIAL LOW DENSITY
- SOLID WASTE DISPOSAL FACILITIES
- OTHER OPEN SPACE AND RECREATION
- VACANT UNDIFFERENTIATED
- WATER TRANSFER FACILITIES
- FREEWAYS AND MAJOR ROADS



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD COLORADO RIVER BASIN REGION

ATTACHMENT B

COUNTY OF RIVERSIDE
OASIS SANITARY LANDFILL
CLASS III LANDFILL
South of Oasis - Riverside County
NE 1.4 of Section 31 T8S, R9E, S8B&M

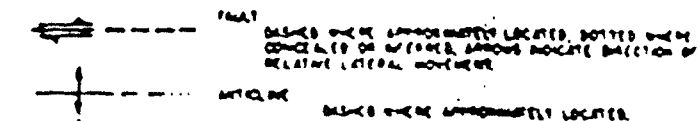


LEGEND

SEDIMENTARY ROCKS

QUATERNARY	RECENT	G	ACTIVE CHANNEL DEPOSITS SAND, SILT, GRAVEL AND SAND OF LARGER STREAMS
		Qs	DUNE SAND BELONG TO THE DECEASED SANDS OF PRINCIPAL RIVERS
PLEISTOCENE		Qa	ALLUVIAL FAN AND STREAM BEDS DEPOSITS SAND, SILT, GRAVEL, SAND AND SILT
		Qm	ALLUVIAL FAN AND LAKE DEPOSITS BELONG TO THE DECEASED SAND, SILT AND CLAY
		Qc	OLDER ALLUVIAL FAN AND TERRACE DEPOSITS GRAY TO TAN, PARTIALLY WEATHERED COARSE GRAVEL, SAND AND SILT INCLUDES UPPER PORTIONS OF THE DECEASED CONGLOMERATE, SOUTHERN FORMATION (I) AND UNDIFFERENTIATED TERRACE DEPOSITS
		Qd	OLDER ALLUVIAL OF SAN Geronimo PASS REDISH-BROWN, DEEPLY WEATHERED GRAVEL, SAND, SILT, AND CLAY
		Qe	NECIS FANGLANDITE TAN TO BROWN, DEEPLY WEATHERED BOLDER CONGLOMERATE WITH SAND, SILT, AND CLAY
		Qf	CANYON FANGLANDITE GRAY TO TAN BOLDER CONGLOMERATE WITH SAND, SILT AND CLAY, BEING POOR TO LACKING
		Qg	DEFORMED GRAVELS OF WHITEWATER RIVER GRAY TO LIGHT TAN SAND, AND ROUNDED PEGGLES TO BOLDER CONGLOMERATE
		Qh	DECEASED CONGLOMERATE TAN TO BROWN, DEEPLY WEATHERED SAND AND POUNDED TO SILT, OR CONGLOMERATE INCLUDES SAND, SILT AND REDISH-BROWN, THIN BEDDED SAND AND CLAY

QUATERNARY	RECENT	STi	MICRAL FORMATION YELLOW SAND, AND WEATHERED SANDSTONE WITH POSSIBLE FINE, MEDIUM
		STm	UPPER FORMATION TAN TO LIGHT BROWN SANDSTONE AND SILTSTONE, SAND, COARSE, BOLD, CONGLOMERATE AND DECEASED POSSIBLE FINE, MEDIUM
		STc	CONGLOMERATE FANGLANDITE WEATHERED, COARSE, BOLD, CONGLOMERATE AND DECEASED INCLUDES WEATHERED FLOWS AND BONES OF OLIVE, SILT
		STd	VOLCANIC ROCKS TERTIARY VOLCANICS INCLUDES THE BOS, PAGES, SILTSTONE AND OLIVE, SILT, FLOWS AND BONES OF THE WEATHERED FANGLANDITE, THE CONGLOMERATE
		STe	QUATERNARY AND METAMORPHIC ROCKS QUATERNARY INTRUSIVE ROCKS SANDSTONE, TONALITE, GRANITE, ALBITE AND PEGMATITE OF THE SOUTHERN CALIFORNIA BATHOLITH
		STf	QUATERNARY SANDSTONE OF UNCERTAIN GRAIN
		STg	METAMORPHIC ROCKS OF THE SAN JUAN AND SANTA ROSA PLATEAU METAMORPHIC ROCKS OF QUATERNARY, SILT, SAND, AND SILT
		STh	SAN Geronimo-CONGLOMERATE COMPLEX UNDIFFERENTIATED COMPLEX OF SANDS, SILT, SILT, BONES, INTRUSIVE, QUATERNARY, SANDSTONE AND PEGMATITE
		STi	QUATERNARY SILT METAMORPHIC INTRUSIVE ROCKS, SILT, SAND, AND SILT, IN LAKESIDE



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ATTACHMENT C

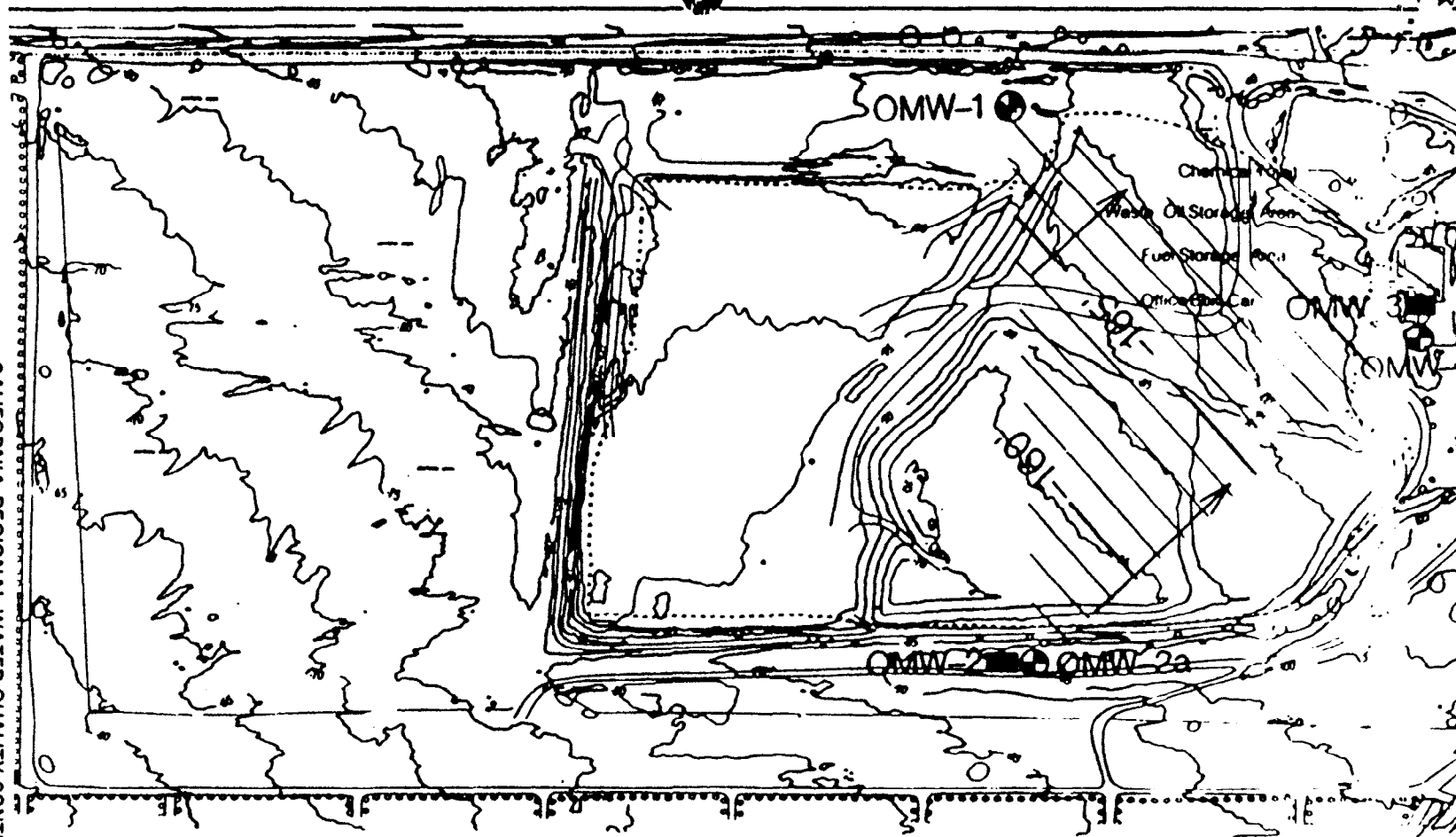
COUNTY OF RIVERSIDE
OASIS SANITARY LANDFILL
CLASS III LANDFILL
South of Oasis - Riverside County
NE 1/4 of Section 31 T8S, R9E, SBB&M

BOARD ORDER NO. 000000

ATTACHMENT D

COUNTY OF RIVERSIDE
 OASIS SANITARY LANDFILL
 CLASS III LANDFILL
 South of Oasis - Riverside County
 NE 1/4 of Section 31 T8S, R9E, S8&4M

COLORADO RIVER BASIN REGION
 CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD



Scale: 1" = 300'

Well I.D.	Coordinate		Wellhead Elevation	Ground Elevation
	Northing	Easting		
OMW-1 (S)	2103927.88	6613076.793	-98.12	-101.38
OMW-2a (S)	2102958.178	6613135.113	-90.70	-93.90
OMW-3a (S)	2103521.422	6613794.422	-107.10	-110.79

LEGEND	
	Abandoned Groundwater Well Location
	Groundwater Well Location
	Landfill Footprint
	Property Line
	Groundwater Contours
	Groundwater Flow Direction

Note: OMW2 has been dry since August 1992. OMW-2a and OMW-3a were installed to replace OMW-2 and OMW-3.